To: CN=Gregory Oberley/OU=R8/O=USEPA/C=US@EPA[]
Cc: []
Bcc: []
From: CN=Robert Parker/OU=R8/O=USEPA/C=US
Sent: Tue 11/13/2012 6:35:26 PM
Subject: Fw: Pavillion 2011 #1 (1104024) Benzene Results

Greg,

Could you ensure the database reflects this accurately?

Thanks,
Rob

----- Forwarded by Robert Parker/R8/USEPA/US on 11/13/2012 11:32 AM -----

From: William Batschelet/R8/USEPA/US
To: Robert Parker/R8/USEPA/US@EPA
Cc: Jesse Kiernan/R8/USEPA/US@EPA, Vince Marti/R8/USEPA/US@EPA
Date: 10/18/2011 03:21 PM
Subject: Pavillion 2011 #1 (1104024) Benzene Results

Rob,

This is to confirm our conversation regarding the differences between the 8260B and TVPH/BTEX by GC/PID/FID results for sample 1104026-01. The TVPH/BTEX analysis uses non-specific detection with analytes identified by retention time (RT) only, while 8260B analysis uses mass spectrometric (MS) detection which provides a "fingerprint" of the detected analytes. Of these, 8260B is more definitive.

I have reviewed the results and original data with both analysts, and the TVPH/BTEX benzene result for sample 1104026-01 is a false positive. There is a peak within the RT window for benzene but shifted slightly (2 - 3 seconds) from an authentic benzene peak. The GC/MS analysis found cyclohexane (a compound know to have a RT very close to benzene) in the sample. Cyclohexane is not included in our calibration standards so it is not reported as one of the analytes. However, it was identified as a tentatively identified compound (TIC) in the case narrative.

To summarize, no benzene was detected in sample 1104026-01. Feel free to contact me if you have additional questions.

Regards,

Bill

William H. Batschelet, PhD
Quality Assurance Officer
USEPA Region 8 Laboratory
16194 W 45th Drive
Golden, CO 80403-1790
Phone: 303-312-7792
FAX: 303- 312-7800